Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Primary Petroleum Corporation
Well Name/Number: Ralston Gap 4-2-25-6
Location: NW NW Lot 4 Section 2 T25N R6W
County: Teton , MT; Field (or Wildcat) Wildcat
Air Quality
(possible concerns)
Long drilling time: No, 10 to 14 days drilling time.
Unusually deep drilling (high horsepower rig): No, triple derrick drilling rig to drill to
5,500' TD Devonian Duperow Formation test.
Possible H2S gas production: Yes possible H2S gas production.
In/near Class I air quality area: No Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
<u>under rule 75-2-211.</u>
Mitigation:
_X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements Other:
Comments: No special concerns – using triple derrick drilling rig to drill to 5,500'
TD.
<u>ID.</u>
Water Quality
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Soils/Vegetation/Land Use

(possible concerns) Steam crossings: None anticipated. High erosion potential: No, small cut, up to 8.6' and small fill, up to 1.7', required. Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed. Unusually large wellsite: No, 350'X350' location size required. Damage to improvements: Slight, appears to be cultivated land. Conflict with existing land use/values Slight
Mitigation Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be over existing state highway #89, county gravel roads and over private farm/ranch roads. New access road from farm/ranch road will be
constructed, about ¾ of a mile. Cuttings will be stockpiled on location. Drilling fluids will
be recycled to the next drilling location. No pit will be utilized. No special concerns.
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Health Hazards/Noise
(possible concerns) Proximity to public facilities/residences: Nearest residences are about ¾ of a mile to the
north, about 1 mile to the southwest, 1.125 miles to the northeast and about 1.5 miles to the east is the Miller Hutterite Colony from this location. Possibility of H2S: Yes H2S possible. Size of rig/length of drilling time: Triple derrick/Double drilling rig/short 10 to14 days drilling time. Mitigation:
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Proximity to sensitive wildlife areas (DFWP identified): <u>About 12.5 miles to the west is the Blackleaf State Wildlife Management Area. About 16.5 miles to the west is the Lewis & Clark National Forest boundary.</u>

Proximity to recreation sites: About 3 miles to the west is Bynum Reservoir, About 12.5 miles to the west is the Blackleaf State Wildlife Management Area. About 16.5 miles to the west is the Lewis & Clark National Forest boundary.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: <u>Threatened or endangered Species listed on USFWS website for counties in Montana lists the following: Grizzly Bear and Canada</u>

Lynx. Candidate species listed are the Sprague's Pipit, Wolverine and the White bark pine. NH Tracker website lists the following as species of concern five (5) Ferruginous Hawk, Black Tern, Bald Eagle, Horned Grebe and McCown's Longspur. Mitigation:
 Avoidance (topographic tolerance/exception) Other agency review (DFWP, federal agencies, DSL) Screening/fencing of pits, drillsite Other:
Comments: Private cultivated surface lands. There maybe species of concern that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to what he would like done, if a species of concern is discovered at this location. The Board of Oil & Gas has no jurisdiction over private surface lands.
Historical/Cultural/Paleontological
(possible concerns) Proximity to known sites None identified Mitigation avoidance (topographic tolerance, location exception) other agency review (SHPO, DSL, federal agencies) Other: Comments: Private cultivated surface lands. There maybe possible historical/cultural/paleontological sites that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to his desires to preserve these sites or not, if they are found during construction of the wellsite. The Board of Oil & Gas has no jurisdiction over private surface lands.
Social/Economic
(possible concerns) Substantial effect on tax base Create demand for new governmental services Population increase or relocation Comments: Wildcat well, until production is established no social/economic concerns can be evaluated. No concerns
Remarks or Special Concerns for this site
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Well is a 5,500' TD Devonian Duperow Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur, but can be mitigated in a short time.

I conclude that the approval of the subject Notice of Intent to Drill (does/<u>does not</u>) constitute a major action of state government significantly affecting the quality of the

Prepared by (BOGC): <u>/s/Steven Sasaki</u> (title:) <u>Chief Field Inspector</u> Date: <u>November 23, 2011</u>
Other Persons Contacted: Montana Bureau of Mines and Geology, GWIC website (Name and Agency) Teton County water wells. (subject discussed) November 23, 2011 (date)
US Fish and Wildlife, Region 6 website (Name and Agency) ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Teton County (subject discussed)
November 23, 2011 (date)
Montana Natural Heritage Program Website (FWP) (Name and Agency) Heritage State Rank= S1, S2, S3, T25N R6W (subject discussed)
November 23, 2011 (date)
If location was inspected before permit approval: Inspection date: Inspector: Others present during inspection:
Others present during inspection:

human environment, and (does/ $\underline{\text{does not}}$) require the preparation of an environmental impact statement.